Geophysical journal subject index by volume 92

Africa

East African earthquake body wave inversion with implications for continental structure and deformation (Wagner, G.S., Langston, C.A.), **94**, 503

Australia

Sp phases from the Australian upper mantle (Bock, G.), **94**, 73
Teleseismic travel-time anomalies and deep crustal structure in central Australia (Lambeck, K., Burgess, G., Shaw, R.D.), **94**, 105

Body waves

Body-wave deconvolution for variable source parameters; application to the 1978 December 6 Kuriles earthquake (Lundgren, P.R., Okal, E.A., Stein, S.), **94**, 171

Chandler period

The self-consistent dynamic pole tide in non-global oceans (Dickman, S.R.), **94**, 519

Earthquake prediction

Groundwater microtemperature and strain (Furuya, I., Shimamura, H.), **94**, 345

Earthquake seismology

Body-wave deconvolution for variable source parameters; application to the 1978 December 6 Kuriles earthquake (Lundgren, P.R., Okal, E.A., Stein, S.), **94**, 171

Earthquakes

The structure of the crust and upper mantle of northern Mexico (Gomberg, J.S., Priestley, K.F., Masters, T.G., Brune, J.N.), **94**, 1
Sediment subduction: a probable key for seismicity and tectonics at active plate boundaries (Kostoglodov, V.), **94**, 65
Anomalous behaviour of precursor resistivity in Shillong area, NE India (Kayal, J.R., Banerjee, B.), **94**, 97
Implications of frequency-domain inversion of earthquake ground motions for resolving the space–time dependence of slip on an extended fault (Olson, A.H., Anderson, J.G.), **94**, 443
East African earthquake body wave inversion with implications for continental structure and deformation (Wagner, G.S., Langston, C.A.), **94**, 503

Earth's core

Synthetic seismograms for an inner core transition of finite thickness (Cummins, P., Johnson, L.), **94**, 21
A steady velocity field at the top of the Earth's core in the frozen-flux approximation (Whaler, K.A., Clarke, S.O.), **94**, 143

Earth's crust

East African earthquake body wave inversion with implications for continental structure and deformation (Wagner, G.S., Langston, C.A.), **94**, 503

Earth's lithosphere

Rheological modelling and deformation instability of lithosphere under extension–II. Depth-dependent rheology (Bassi, G., Bonnin, J.), **94**, 559

Earth's mantle

Teleseismic travel-time anomalies and deep crustal structure in central Australia (Lambeck, K., Burgess, G., Shaw, R.D.), **94**, 105
Time-dependent thermal convection – a possible explanation for a multiscale flow in the Earth's mantle (Hansen, U., Ebel, A.), **94**, 181

Earth's rotation

Global surface-water-induced seasonal variations in the Earth's rotation and gravitational field (Chao, B.F., O'Connor, W.P.), **94**, 263

Elastic theory

Elastodynamics in a laterally heterogeneous, self-gravitating body (Geller, R.J.), **94**, 271

Electrical resistivity

Impedance of black shale from Münsterland 1 borehole: an anomalously good conductor? (Duba, A., Huenges, E., Nover, G., Will, G., Jödicke, H.), **94**, 413

Electromagnetic diffusion

Application of the modified Cagniard technique to transient electromagnetic diffusion problems (de Hoop, A.T., Oristaglio, M.L.), **94**, 387

Fault motions

Stress and displacement fields due to a penny-shaped shear crack with non-uniform traction (Zhiren, N.), **94**, 219
Implications of frequency-domain inversion of earthquake ground motions for resolving the space–time dependence of slip on an extended fault (Olson, A.H., Anderson, J.G.), **94**, 443

Focal depth

Effect of single arrival time on the hypocentral focal depth determination (Rabinowitz, N., Steinberg, D.M.), **94**, 567

Geomagnetism

Fluctuation of the standing and the drifting parts of the Earth's magnetic field (Matsushima, M., Honkura, Y.), **94**, 35
A steady velocity field at the top of the Earth's core in the frozen-flux approximation (Whaler, K.A., Clarke, S.O.), **94**, 143

Gravitational field

Global surface-water-induced seasonal variations in the Earth's rotation and gravitational field (Chao, B.F., O'Connor, W.P.), **94**, 263

Groundwater temperature

Groundwater microtemperature and strain (Furuya, I., Shimamura, H.), **94**, 345

Heat flow

Inversion of temperature measurements in lake sediment (Shen, P.Y., Beck, A.E.), **94**, 545

Hotspots

Deflection of plumes by mantle shear flow: experimental results and a simple theory (Richards, M.A., Griffiths, R.W.), **94**, 367

Plate motions

South American–Antarctic plate motion over the past 50 Myr, and the evolution of the South American–Antarctic ridge (Barker, P.F., Lawver, L.A.), **94**, 377

Ray tracing

Ray tracing in anisotropic media with a linear gradient (Shearer, P.M., Chapman, C.H.), **94**, 575

Rayleigh waves

Rayleigh wave phase velocities in the Pacific with implications for azimuthal anisotropy and lateral heterogeneities (Nishimura, C.E., Forsyth, D.W.), **94**, 479

Resistivity

Anomalous behaviour of precursor resistivity in Shillong area, NE India (Kayal, J.R., Banerjee, B.), **94**, 97

Rheology

Rheological modelling and deformation instability of lithosphere under extension–II. Depth-dependent rheology (Bassi, G., Bonnin, J.), **94**, 559

San Andreas system

Strain melting, the wetting transition and seismic instabilities (Lomnitz-Adler, J.), **94**, 125

Scotland

A palaeomagnetic study of a Caledonian ophiolite (Taylor, G.K.), **94**, 157
Surface waves generated by underwater explosions offshore Scotland (MacBeth, C.D., Burton, P.W.), **94**, 285

Seismic anisotropy

Shear-wave splitting observed above small earthquakes in a geothermal area of Japan (Kaneshima, S., Ito, H., Sugihara, M.), **94**, 399
Teleseismic body waves in transversely isotropic media (Mandal, B.), **94**, 427
Analysis of elastic symmetry from velocity measurements with application to dunite and bronzitite (Harder, S.), **94**, 469
Rayleigh wave phase velocities in the Pacific with implications for azimuthal anisotropy and lateral heterogeneities (Nishimura, C.E., Forsyth, D.W.), **94**, 479
Ray tracing in anisotropic media with a linear gradient (Shearer, P.M., Chapman, C.H.), **94**, 575

Seismic data processing

On the theory of Chebyshev polynomials in wave-equation migration (Kelamis, P.G.), **94**, 421
Iterative seismic inversion (Norton, S.J.), **94**, 457

Seismic fracture

Strain melting, the wetting transition and seismic instabilities (Lomnitz-Adler, J.), **94**, 125

Seismic surface waves

Surface waves generated by underwater explosions offshore Scotland (MacBeth, C.D., Burton, P.W.), **94**, 285

Instrumentation

Sensitivity and sample shape related measuring effects on the MOLSPIN susceptibility anisotropy meter (Hounslow, M.W., Noel, M., Bootes, P.A.), **94**, 355

Inverse theory

Subspace methods for large inverse problems with multiple parameter classes (Kennett, B.L.N., Sambridge, M.S., Williamson, P.R.), **94**, 237
Comparing hard and soft prior bounds in geophysical inverse problems (Backus, G.E.), **94**, 249
Positive resolving kernels and annihilators in linear inverse theory (Huestis, S.P.), **94**, 571

Ireland

Palaeomagnetism of the Connemara Gabbro, Western Ireland (Robertson, D.J.), **94**, 51

Lake sediments

Inversion of temperature measurements in lake sediment (Shen, P.Y., Beck, A.E.), **94**, 545

Lithosphere

The structure of the crust and upper mantle of northern Mexico (Gomberg, J.S., Priestley, K.F., Masters, T.G., Brune, J.N.), **94**, 1

Magnetile

Magnetic properties of some synthetic sub-micron magnetites (Maher, B.A.), **94**, 83

Mantle plumes

Deflection of plumes by mantle shear flow: experimental results and a simple theory (Richards, M.A., Griffiths, R.W.), **94**, 367

Mexico

The structure of the crust and upper mantle of northern Mexico (Gomberg, J.S., Priestley, K.F., Masters, T.G., Brune, J.N.), **94**, 1

Waveform modelling using locked-mode synthetic and differential seismograms: application to determination of the structure of Mexico (Gomberg, J.S., Masters, T.G.), **94**, 193

Mineral magnetism

Magnetic properties of some synthetic sub-micron magnetites (Maher, B.A.), **94**, 83

Oceans

The self-consistent dynamic pole tide in non-global oceans (Dickman, S.R.), **94**, 519

Pacific region

Rayleigh wave phase velocities in the Pacific with implications for azimuthal anisotropy and lateral heterogeneities (Nishimura, C.E., Forsyth, D.W.), **94**, 479

Palaeomagnetism

Palaeomagnetism of the Connemara Gabbro, Western Ireland (Robertson, D.J.), **94**, 51
A palaeomagnetic study of a Caledonian ophiolite (Taylor, G.K.), **94**, 157
Sensitivity and sample shape related measuring effects on the MOLSPIN susceptibility anisotropy meter (Hounslow, M.W., Noel, M., Bootes, P.A.), **94**, 355

Seismic tomography

Subspace methods for large inverse problems with multiple parameter classes (Kennett, B.L.N., Sambridge, M.S., Williamson, P.R.), **94**, 237
Vectorial tomography – I. Theory (Montagner, J.-P., Nataf, H.-C.), **94**, 295
Vectorial tomography – II. Application to the Indian Ocean (Montagner, J.-P., Jobert, N.), **94**, 309

Seismograms

Synthetic seismograms for an inner core transition of finite thickness (Cummins, P., Johnson, L.), **94**, 21
Waveform modelling using locked-mode synthetic and differential seismograms: application to determination of the structure of Mexico (Gomberg, J.S., Masters, T.G.), **94**, 193

Seismology

The structure of the crust and upper mantle of northern Mexico (Gomberg, J.S., Priestley, K.F., Masters, T.G., Brune, J.N.), **94**, 1
Sp phases from the Australian upper mantle (Bock, G.), **94**, 73
Teleseismic travel-time anomalies and deep crustal structure in central Australia (Lambeck, K., Burgess, G., Shaw, R.D.), **94**, 105
Effect of single arrival time on the hypocentral focal depth determination (Rabinowitz, N., Steinberg, D.M.), **94**, 567

South America – Antarctic Ridge

South American–Antarctic plate motion over the past 50 Myr, and the evolution of the South American–Antarctic ridge (Barker, P.F., Lawver, L.A.), **94**, 377

Statistical methods

Parameter estimation in non-Gaussian noise (Constable, C.G.), **94**, 131

Stress distribution

Stress and displacement fields due to a penny-shaped shear crack with non-uniform traction (Zhiren, N.), **94**, 219

Subduction

Sediment subduction: a probable key for seismicity and tectonics at active plate boundaries (Kostoglodov, V.), **94**, 65

Thermal convection

Time-dependent thermal convection – a possible explanation for a multiscale flow in the Earth's mantle (Hansen, U., Ebel, A.), **94**, 181

Upper mantle

Sp phases from the Australian upper mantle (Bock, G.), **94**, 73

Geophysical journal author index by volume 94

Anderson, J.G. *see* Olson, A.H.

Backus, G.E. Comparing hard and soft prior bounds in geophysical inverse problems, **94**, 249
Banerjee, B. *see* Kayal, J.R.
Barker, P.F., Lawver, L.A. South American–Antarctic plate motion over the past 50 Myr, and the evolution of the South American–Antarctic ridge, **94**, 377
Bassi, G., Bonnin, J. Rheological modelling and deformation instability of lithosphere under extension–II. Depth-dependent rheology, **94**, 559
Beck, A.E. *see* Shen, P.Y.
Bock, G. *Sp* phases from the Australian upper mantle, **94**, 73
Bonnin, J. *see* Bassi, G.
Bootes, P.A. *see* Hounslow, M.W.
Brune, J.N. *see* Gomberg, J.S.
Burgess, G. *see* Lambeck, K.
Burton, P.W. *see* MacBeth, C.D.

Chao, B.F., O'Connor, W.P. Global surface-water-induced seasonal variations in the Earth's rotation and gravitational field, **94**, 263
Chapman, C.H. *see* Shearer, P.M.
Clarke, S.O. *see* Whaler, K.A.
Constable, C.G. Parameter estimation in non-Gaussian noise, **94**, 131
Cummins, P., Johnson, L. Synthetic seismograms for an inner core transition of finite thickness, **94**, 21

de Hoop, A.T., Oristaglio, M.L. Application of the modified Cagniard technique to transient electromagnetic diffusion problems, **94**, 387
Dickman, S.R. The self-consistent dynamic pole tide in non-global oceans, **94**, 519
Duba, A., Huenges, E., Nover, G., Will, G., Jödicke, H. Impedance of black shale from Münsterland 1 borehole: an anomalously good conductor?, **94**, 413

Ebel, A. *see* Hansen, U.

Forsyth, D.W. *see* Nishimura, C.E.
Furuya, I., Shimamura, H. Groundwater microtemperature and strain, **94**, 345

Geller, R.J. Elastodynamics in a laterally heterogeneous, self-gravitating body, **94**, 271
Gomberg, J.S., Masters, T.G. Waveform modelling using locked-mode synthetic and differential seismograms: application to determination of the structure of Mexico, **94**, 193
Gomberg, J.S., Priestley, K.F., Masters, T.G., Brune, J.N. The structure of the crust and upper mantle of northern Mexico, **94**, 1
Griffiths, R.W. *see* Richards, M.A.

Hansen, U., Ebel, A. Time-dependent thermal convection – a possible explanation for a multiscale flow in the Earth's mantle, **94**, 181
Harder, S. Analysis of elastic symmetry from velocity measurements with application to dunite and bronzitite, **94**, 469
Honkura, Y. *see* Matsushima, M.
Hounslow, M.W., Noel, M., Bootes, P.A. Sensitivity and sample shape related measuring effects on the MOLSPIN susceptibility anisotropy meter, **94**, 355
Huenges, E. *see* Duba, A.
Huestis, S.P. Positive resolving kernels and annihilators in linear inverse theory, **94**, 571

Ito, H. *see* Kaneshima, S.

Jobert, N. *see* Montagner, J.-P.
Jödicke, H. *see* Duba, A.
Johnson, L. *see* Cummins, P.

Kaneshima, S., Ito, H., Sugihara, M. Shear-wave splitting observed above small earthquakes in a geothermal area of Japan, **94**, 399
Kayal, J.R., Banerjee, B. Anomalous behaviour of precursor resistivity in Shillong area, NE India, **94**, 97
Kelamis, P.G. On the theory of Chebyshev polynomials in wave-equation migration, **94**, 421
Kennett, B.L.N., Sambridge, M.S., Williamson, P.R. Subspace methods for large inverse problems with multiple parameter classes, **94**, 237
Kostoglodov, V. Sediment subduction: a probable key for seismicity and tectonics at active plate boundaries, **94**, 65

Lambeck, K., Burgess, G., Shaw, R.D. Teleseismic travel-time anomalies and deep crustal structure in central Australia, **94**, 105
Langston, C.A. *see* Wagner, G.S.
Lawver, L.A. *see* Barker, P.F.
Lomnitz-Adler, J. Strain melting, the wetting transition and seismic instabilities, **94**, 125
Lundgren, P.R., Okal, E.A., Stein, S. Body-wave deconvolution for variable source parameters; application to the 1978 December 6 Kuriles earthquake, **94**, 171

MacBeth, C.D., Burton, P.W. Surface waves generated by underwater explosions offshore Scotland, **94**, 285
Maher, B.A. Magnetic properties of some synthetic sub-micron magnetites, **94**, 83
Mandal, B. Teleseismic body waves in transversely isotropic media, **94**, 427
Masters, T.G. *see* Gomberg, J.S.

Matsushima, M., Honkura, Y. Fluctuation of the standing and the drifting parts of the Earth's magnetic field, **94**, 35
Montagner, J.-P., Jobert, N. Vectorial tomography – II. Application to the Indian Ocean, **94**, 309
Montagner, J.-P., Nataf, H.-C. Vectorial tomography – I. Theory, **94**, 295

Nataf, H.-C. *see* Montagner, J.-P.
Nishimura, C.E., Forsyth, D.W. Rayleigh wave phase velocities in the Pacific with implications for azimuthal anisotropy and lateral heterogeneities, **94**, 479
Noel, M. *see* Hounslow, M.W.
Norton, S.J. Iterative seismic inversion, **94**, 457
Nover, G. *see* Duba, A.

O'Connor, W.P. *see* Chao, B.F.
Okal, E.A. *see* Lundgren, P.R.
Olson, A.H., Anderson, J.G. Implications of frequency-domain inversion of earthquake ground motions for resolving the space–time dependence of slip on an extended fault, **94**, 443
Oristaglio, M.L. *see* de Hoop, A.T.

Priestley, K.F. *see* Gomberg, J.S.

Rabinowitz, N., Steinberg, D.M. Effect of single arrival time on the hypocentral focal depth determination, **94**, 567
Richards, M.A., Griffiths, R.W. Deflection of plumes by mantle shear flow: experimental results and a simple theory, **94**, 367
Robertson, D.J. Palaeomagnetism of the Connemara Gabbro, Western Ireland, **94**, 51

Sambridge, M.S. *see* Kennett, B.L.N.
Shaw, R.D. *see* Lambeck, K.
Shearer, P.M., Chapman, C.H. Ray tracing in anisotropic media with a linear gradient, **94**, 575
Shen, P.Y., Beck, A.E. Inversion of temperature measurements in lake sediment, **94**, 545
Shimamura, H. *see* Furuya, I.
Steinberg, D.M. *see* Rabinowitz, N.
Stein, S. *see* Lundgren, P.R.
Sugihara, M. *see* Kaneshima, S.

Taylor, G.K. A palaeomagnetic study of a Caledonian ophiolite, **94**, 157

Wagner, G.S., Langston, C.A. East African earthquake body wave inversion with implications for continental structure and deformation, **94**, 503

Whaler, K.A., Clarke, S.O. A steady velocity field at the top of the Earth's core in the frozen-flux approximation, **94**, 143

Will, G. *see* Duba, A.

Williamson, P.R. *see* Kennett, B.L.N.

Zhiren, N. Stress and displacement fields due to a penny-shaped shear crack with non-uniform traction, **94**, 219